

# University of Pretoria Yearbook 2017

## Conservation planning and monitoring 808 (ZEN 808)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	15.00
<b>Programmes</b>	<a href="#">MSc Environmental Ecology (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	4 discussion classes per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Zoology and Entomology
<b>Period of presentation</b>	Year

### Module content

Biodiversity survey techniques; data and information management; data assessment; principles of data extrapolation; inventories; biodiversity risk assessment (PHVA, small and declining population paradigms, prioritisation); principles of reserve selection; surrogacy; reserve design; integrated land-use planning. Landscape theories and models (hierarchy, percolation, metapopulation, source-sink); scaling patterns and processes across landscapes (patches, corridors, mosaics and flows); emerging patterns and processes; principles of landscape dynamics; principles of landscape conservation, management and design (transformation, fragmentation); methods in landscape ecology (numerical and spatial data processing, fractal geometry approach, GIS, remote sensing, GPS, spatially explicit population models). Skills: GradSect, Access, Excel, Visual Basic, GIS (Arc View) reserve selection algorithms.

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